US

PCT Applicant's Guide - Volume II - National Chapter - US

Annex US.II, page 1

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
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TRANSMITTAL LETTER TO THE UNITED STATES  ATTORNEY'S DOCKET NUMBER					
DESIGNATED/ELECTED OFFICE (DO/EO/US)  CONCERNING A SUBMISSION UNDER 35 U.S.C. 371	-				
INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED	4				
PCT/CA2003/001312 29 August 2003 -					
System of Super Super Decompled Load flow Computation for Electric	Zq.				
APPLICANT(S) FOR DO/EO/US SHIPShchandra B. Patel					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
1. This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.					
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.					
This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.					
4. The US has been elected (Article 31).					
5. A copy of the International Application as filed (35 U.S.C. 371(c)(2))					
a. is attached hereto (required only if not communicated by the International Bureau).					
b. 🔀 has been communicated by the International Bureau.					
c. is not required, as the application was filed in the United States Receiving Office (RO/US).					
6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).					
a. is attached hereto.					
b. has been previously submitted under 35 U.S.C. 154(d)(4).					
7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))					
a. are attached hereto (required only if not communicated by the International Bureau).					
b. An have been communicated by the International Bureau.					
c. have not been made; however, the time limit for making such amendments has NOT expired.					
d. have not been made and will not be made.					
8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).					
9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).					
An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).					
Items 11 to 20 below concern document(s) or information included:					
11. An Information Disclosure Statement under 37 CFR 1.97 and 1.98.					
12. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.					
13. A preliminary amendment.					
14. An Application Data Sheet under 37 CFR 1.76.					
15. A substitute specification.					
16. A power of attorney and/or change of address letter.					
17. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.					
18. A second copy of the published International Application under 35 U.S.C. 154(d)(4).					
19. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).					

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. APPLICATIONINO THE KNOWN SEE 3 MEET 1.5) INTERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NUMBER PCT/CA2003/001312\_ other items or information: I believe there is no multiple dependent claim. However, if USPTO considers there is any additional \$150 may be charged to my credit card The following fees have been submitted **CALCULATIONS** PTO USE ONLY 21. 300 Examination fee (37 CFR 1.492(c)) 200 If the written opinion prepared by ISA/US or the international preliminary examination report prepared All other situations......\$200 Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority......\$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB......\$400 All other situations......\$500 900 **TOTAL OF 21, 22 and 23.≃** Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. **Total Sheets** Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number) \$ - 100 = /50 =x \$250 Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). **CLAIMS** NUMBER FILED NUMBER EXTRA **RATE** \$ Total claims - 20 = x \$ 50 \$ Independent claims - 3 = \$ × \$200 MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360 \$ **TOTAL OF ABOVE CALCULATIONS =** Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. 450 SUBTOTAL = Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). 450 TOTAL NATIONAL FEE = Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied \$

by an appropriate cover sheet (37 CFR 3.28, 3.31), \$40.00 per property

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Annex US.II, page 3

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### IAP3 Rec'd PCT/PTO 01 MAR 2008

### 10/570023

37 Miller Street Toronto, Ontario M6N 2Z6 Canada

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February 23, 2006

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USA

Subject: Entry into US-national-phase and the first Amendment of patent application No.

PCT/CA 2002/001212

PCT/CA2003/001312

Ref: PCT/CA2003/001312: System of Super Super Decoupled Loadflow Computation for

**Electrical Power System** 

Dear Sir/Madam,

### Enclosed please find:

1. Amended copy of description, claims, abstract, and 7-figure of my application no. PCT/CA2003/001312 (51-pages)

2. A marked-up in red ink copy of contents of item-1 above for amendment against as filed and published contents of the application PCT/CA2003/001312 (26-pages with content on both sides)

Filled and signed: Recordation form cover sheet (form PTO-1595), Transmittal letter to the United States (PTO-1390), Credit Card Payment Form (PTO-2038), Declaration for Utility or Design Patent Applications (PTO/SB/01), and Correspondence address indication form (PTO/SB/81) (8-pages)

Claim-1 is the elaborate method of control in power network shown by Fig.5 involving a step of Loadflow calculation, which is proposed to embody inventions characterized in claims- 1 & 2. In claim-1, restricting rotation angle, using network shunts, and calculating modified real power mismatch steps are inventive. Claims-3 to 9 presents simple practical system and method described in detail that embody inventions of claims-1 & 2, establishing the practical utility of inventions. The practical system and method presented in claims-3 to 9 is similar to the one used to claim utility of the invention in US patent number 5081591 dated January 14, 1992: "Optimizing reactive power Distribution in an Industrial Power Network". Thus claims 1 to 9 follows and combines the method of claiming in the US patent 4868410 & US patent 5081591. However, if a method patent can be granted as in the case of US patent 4868410, it is proposed to remove claims-3 to -9, corresponding description, and Figs.6 and 7 from the application. I expect examiner to advise on this.

As filed claim-2 is merged into amended claim-1 as a step of "calculating modified real power mismatch as...". Other two steps of "forming and storing factorized gain matrices..." and "using

### 10/570023

### IAPZOREE OF GIVETO 01 MAR 2006

Para [021] to [029] under the heading SUMMARY OF INVENTION" in this amendment replaces as filed content on pages-5 & -6 under the heading "Disclosure of the Invention". Para [037] to [056] under the heading DESCRIPTION OF A PREFERRED EMBODIMENT" are added new for clarity that support claims, without adding any new description of claimed new invention. For more clarity of the amendment, marked-up copy should be referred. Equation numbers in the application copy as filed are changed in this amendment copy because of expansion and reorganization of equations without adding anything which was not present in the application copy as filed.

I have made this application as individual, and therefore, I claim status of small entity. Payment fees for charging to my credit card account are calculated for small entity.

Sincerely, Sureshchandra B. Patel Suresh Patel Enclosures: Clean amended copy of description, claims, abstract, and 7-figures of application (51-pages) + marked-up in red ink copy of description, claims, abstract, and 7-figures with content on both sides (26-pages) + USPTO forms filled and signed (8-pages) + this cover letter (1)-pages) = total 88-pages + 2-lages of XPI essport receipt with trusking report and a copy of the address side to the Package. = 12 - luges total Jalotal 27 February 2006. Hope, this will meet the deadure dute of 28 Fabruary, 2006. This is being disputched by Comies - nexiday delivery Hartal



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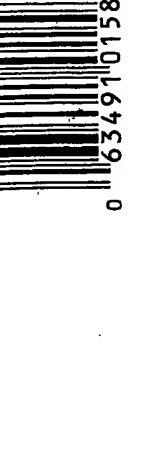


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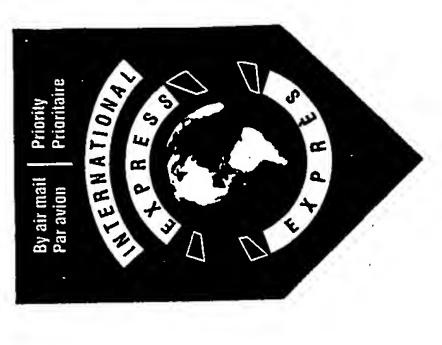
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